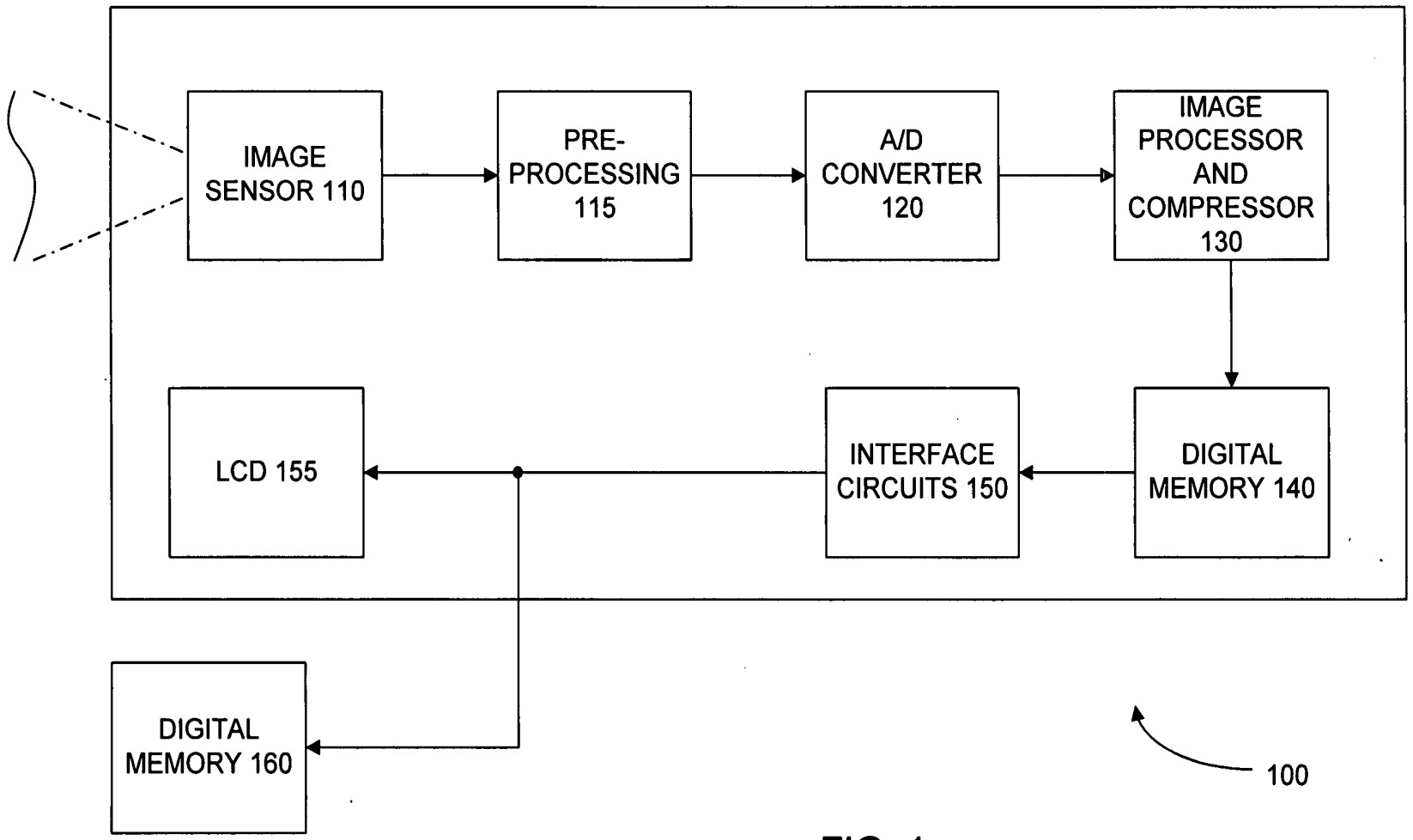
IMAGE SENSOR 110
PRE-PROCESSING 115
A/D CONVERTER 120
IMAGE PROCESSOR AND COMPRESSOR 130
LCD 155
INTERFACE CIRCUITS 150
DIGITAL MEMORY 140
DIGITAL MEMORY 160
100

FIG. 1

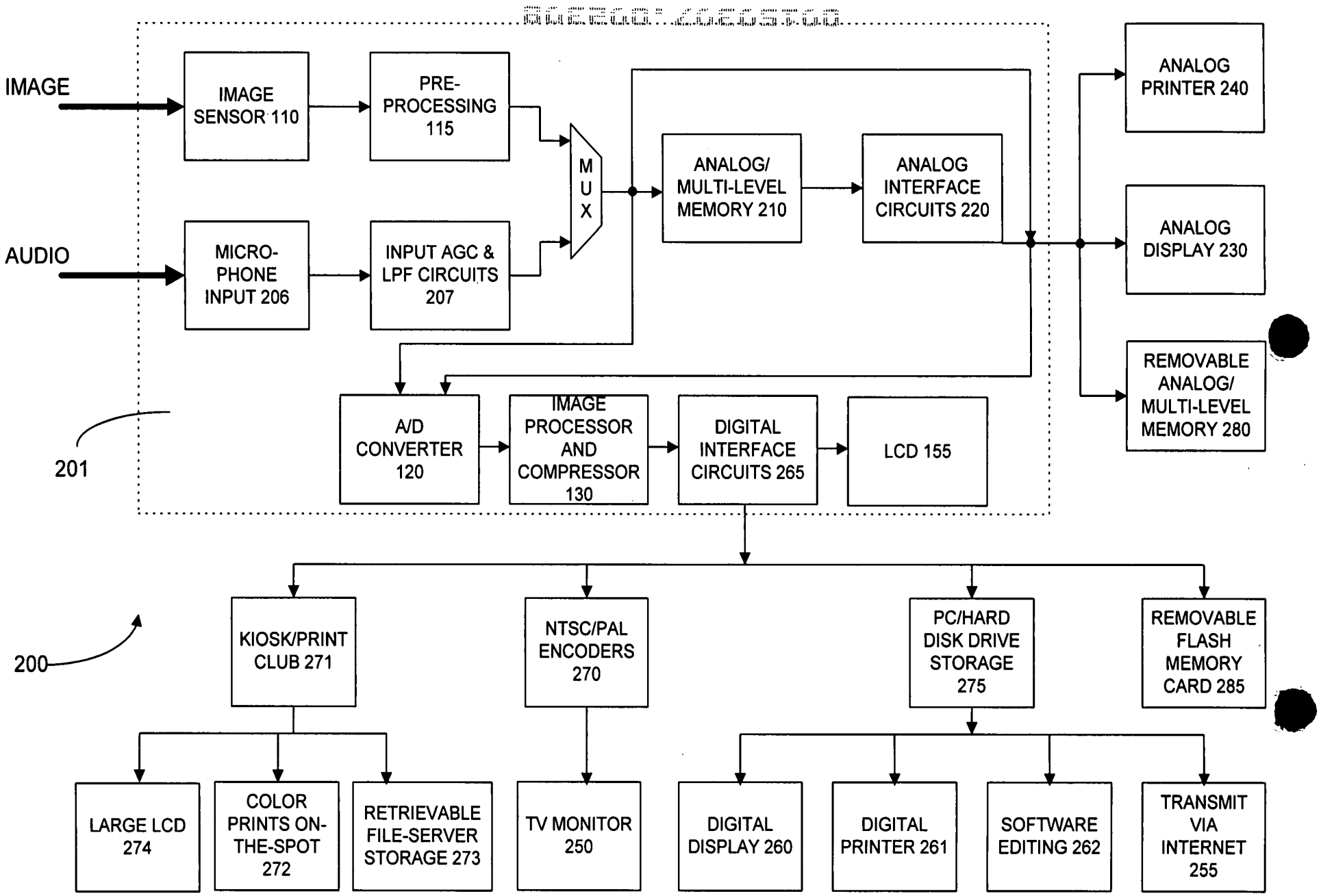
IMAGE
IMAGE SENSOR 110
PRE-PROCESSING 115
AUDIO
MICRO-PHONE INPUT 206
INPUT AGC & LPF CIRCUITS 207
M U X
ANALOG/ MULTI-LEVEL MEMORY 210
ANALOG INTERFACE CIRCUITS 220
ANALOG PRINTER 240
ANALOG DISPLAY 230
REMOVABLE ANALOG/ MULTI-LEVEL MEMORY 280
201
A/D CONVERTER 120
IMAGE PROCESSOR AND COMPRESSOR 130
DIGITAL INTERFACE CIRCUITS 265
LCD 155
200
KIOSK/PRINT CLUB 271
NTSC/PAL ENCODERS 270
PC/HARD DISK DRIVE STORAGE 275
REMOVABLE FLASH MEMORY CARD 285
LARGE LCD 274
COLOR PRINTS ON-THE-SPOT 272
RETRIEVABLE FILE-SERVER STORAGE 273
TV MONITOR 250
DIGITAL DISPLAY 260
DIGITAL PRINTER 261
SOFTWARE EDITING 262
TRANSMIT VIA INTERNET 255

FIG. 2

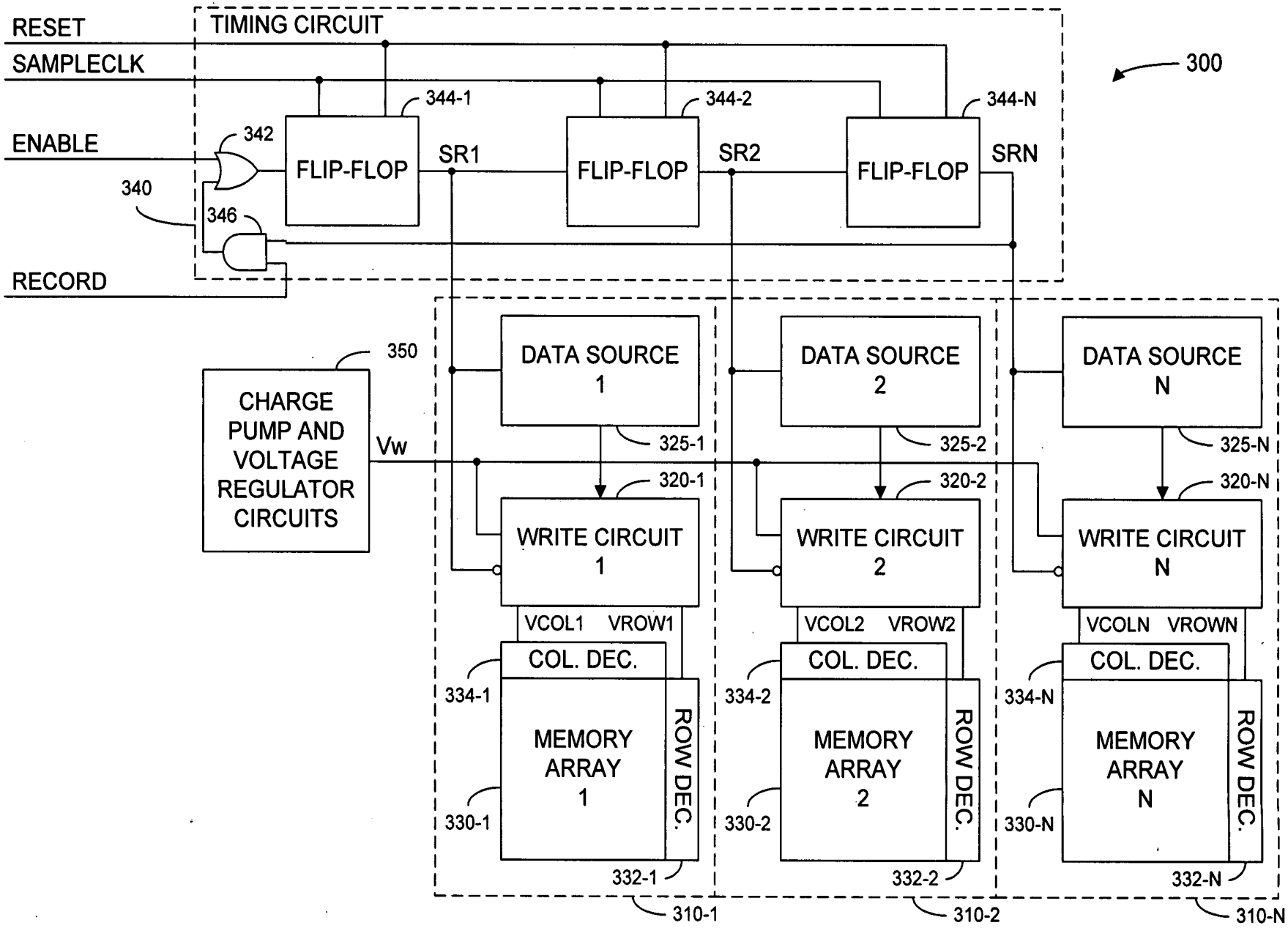
RESET
SAMPLECLK
ENABLE
340
346
RECORD
TIMING CIRCUIT
300
342
344-1
344-2
344-N
FLIP-FLOP
FLIP-FLOP
FLIP-FLOP
SR1
SR2
SRN
350
CHARGE PUMP AND VOLTAGE REGULATOR CIRCUITS
Vw
DATA SOURCE 1
DATA SOURCE 2
DATA SOURCE N
325-1
325-2
325-N
320-1
320-2
320-N
WRITE CIRCUIT 1
WRITE CIRCUIT 2
WRITE CIRCUIT N
VCOL1 VROW1
VCOL2 VROW2
VCOLN VROWN
COL. DEC.
COL. DEC.
COL. DEC.
334-1
334-2
334-N
MEMORY ARRAY 1
MEMORY ARRAY 2
MEMORY ARRAY N
ROW DEC.
ROW DEC.
ROW DEC.
330-1
330-2
330-N
332-1
332-2
332-N
310-1
310-2
310-N

FIG. 3

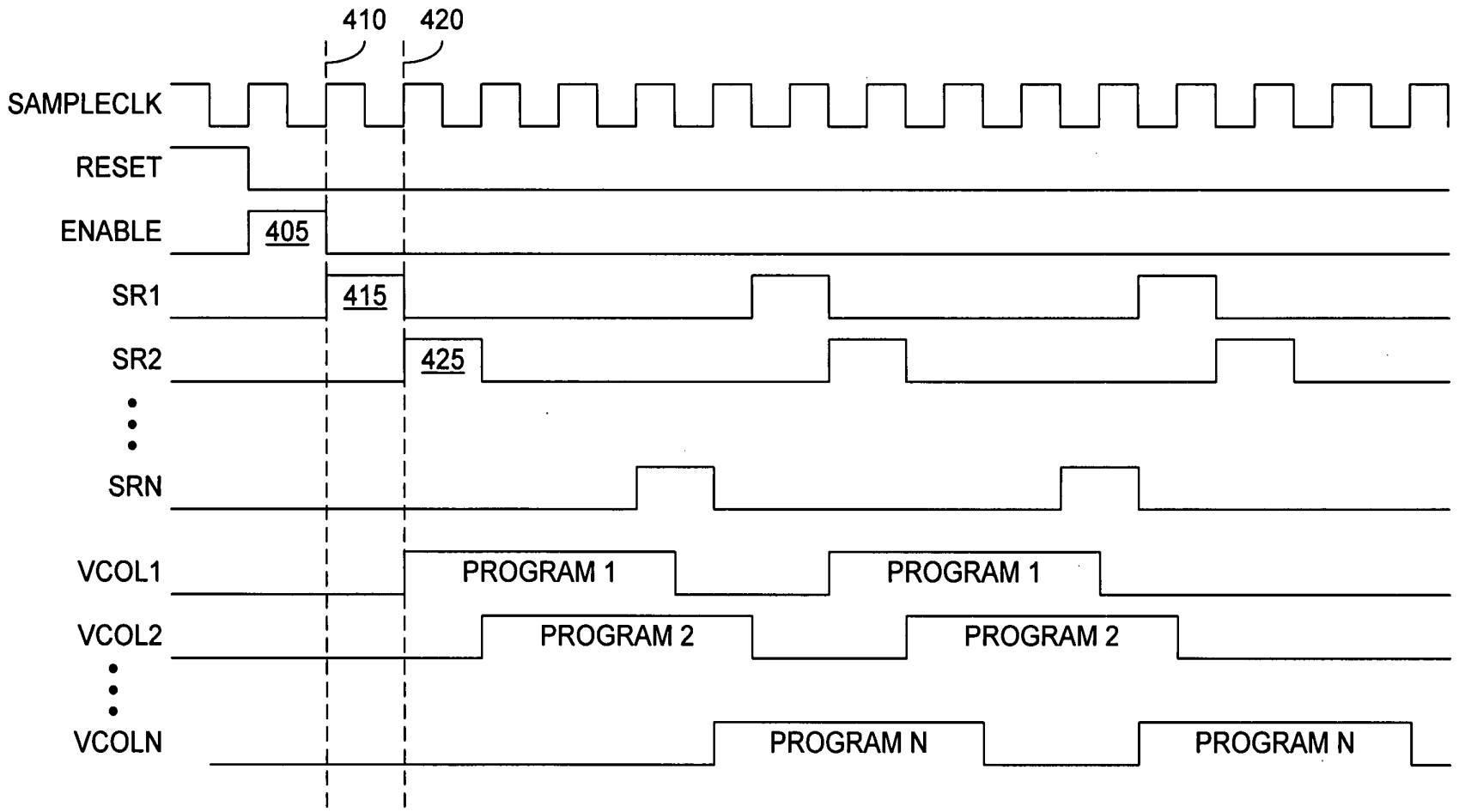
410
420
SAMPLECLK
RESET
ENABLE
405
SR1
415
SR2
425
SRN
VCOL1
PROGRAM 1
PROGRAM 1
VCOL2
PROGRAM 2
PROGRAM 2
VCOLN
PROGRAM N
PROGRAM N

FIG. 4

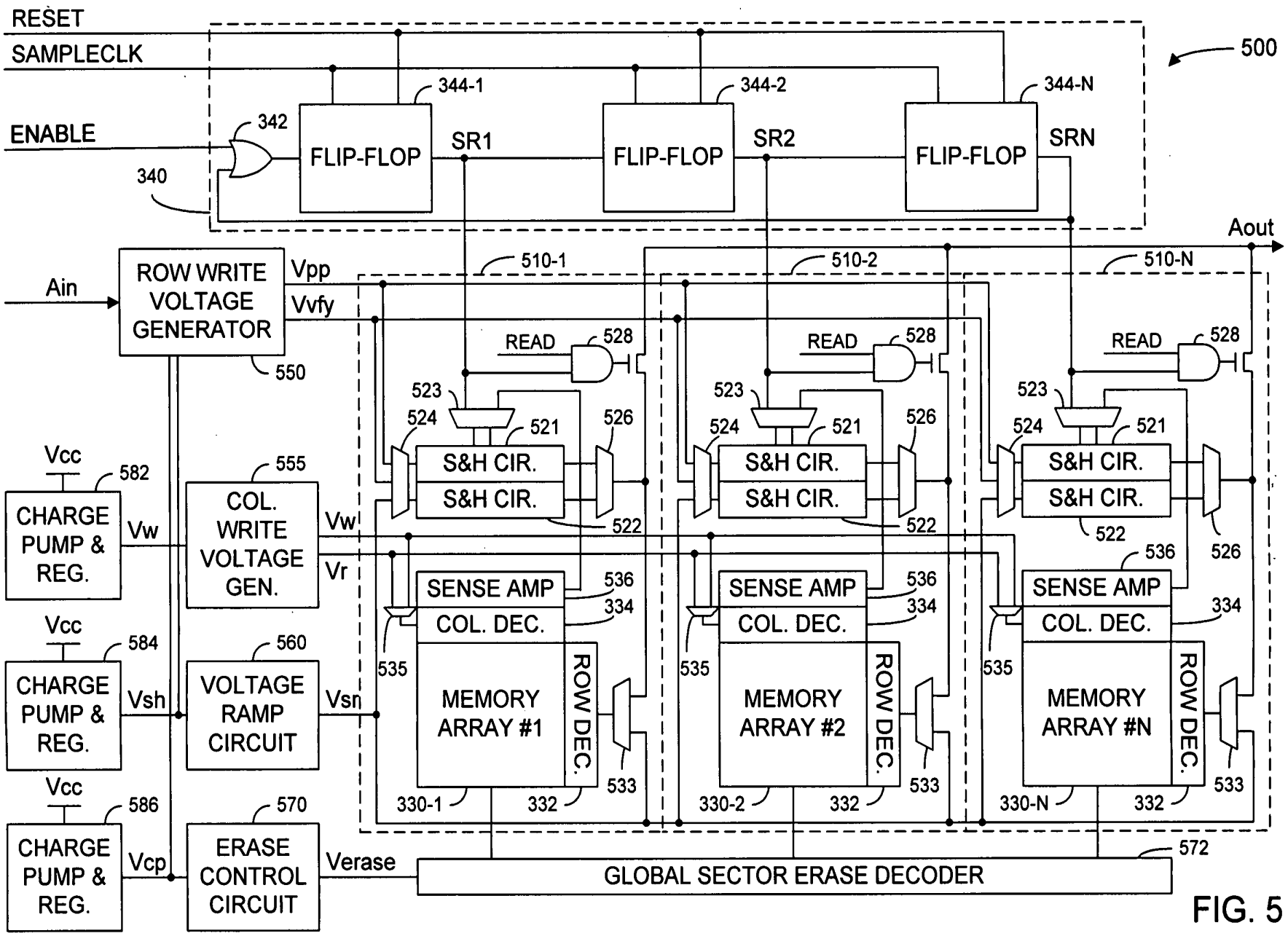
RESET
SAMPLECLK
ENABLE
500
342
340
344-1
344-2
344-N
FLIP-FLOP
FLIP-FLOP
FLIP-FLOP
SR1
SR2
SRN
Aout
Ain
ROW WRITE VOLTAGE GENERATOR
550
Vpp
Vvfy
510-1
510-2
510-N
READ
528
523
524
521
526
S&H CIR.
S&H CIR.
522
Vcc
582
CHARGE PUMP & REG.
Vw
555
COL. WRITE VOLTAGE GEN.
Vw
Vr
SENSE AMP
COL. DEC.
536
334
535
MEMORY ARRAY #1
MEMORY ARRAY #2
MEMORY ARRAY #N
ROW DEC.
533
330-1
330-2
330-N
332
Vcc
584
CHARGE PUMP & REG.
Vsh
560
VOLTAGE RAMP CIRCUIT
Vsn
Vcc
586
CHARGE PUMP & REG.
Vcp
570
ERASE CONTROL CIRCUIT
Verase
572
GLOBAL SECTOR ERASE DECODER

FIG. 5

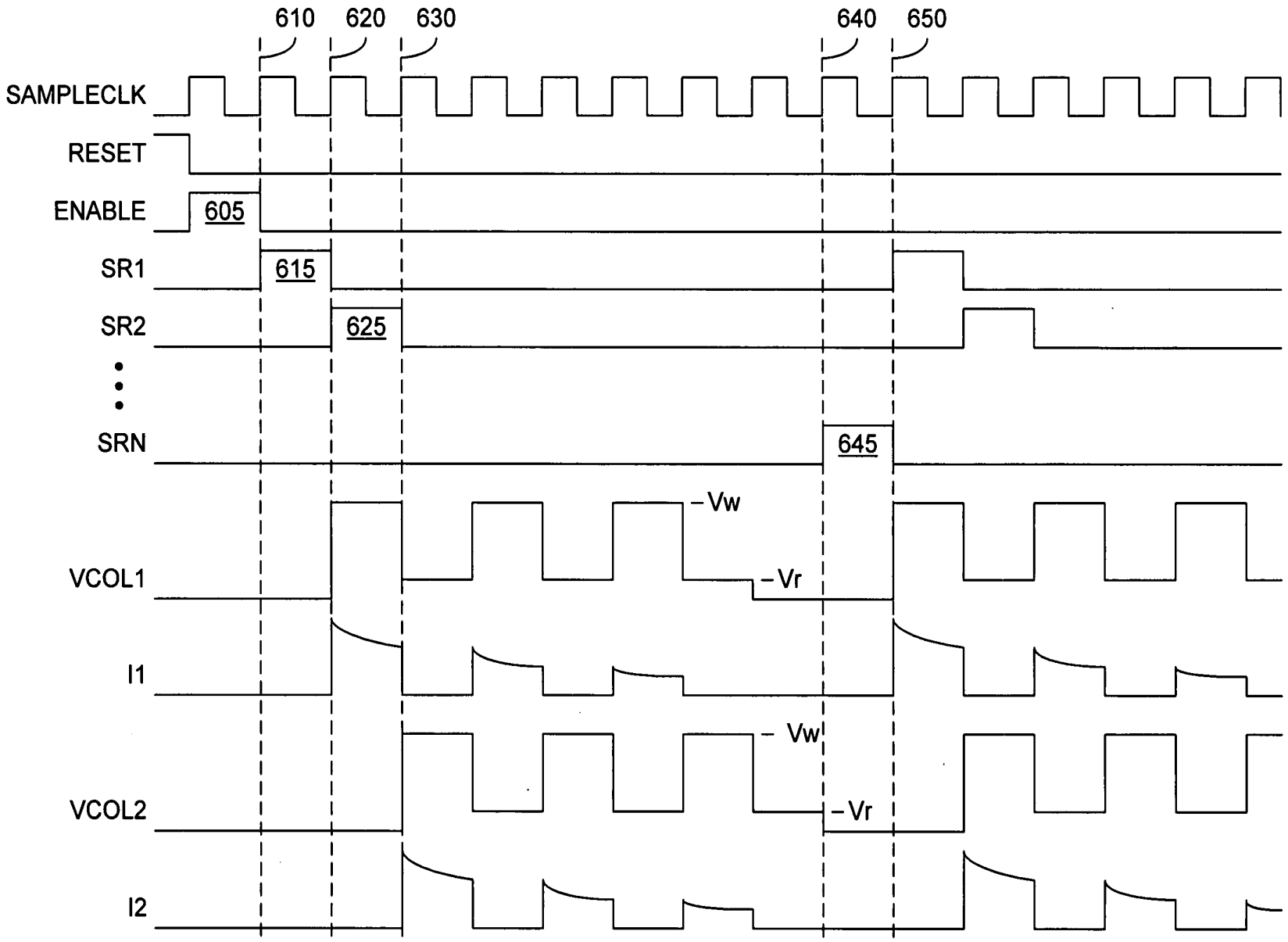
610
620
630
640
650
SAMPLECLK
RESET
ENABLE
605
SR1
615
SR2
625
SRN
645
-Vw
VCOL1
-Vr
I1
-Vw
VCOL2
-Vr
I2

FIG. 6

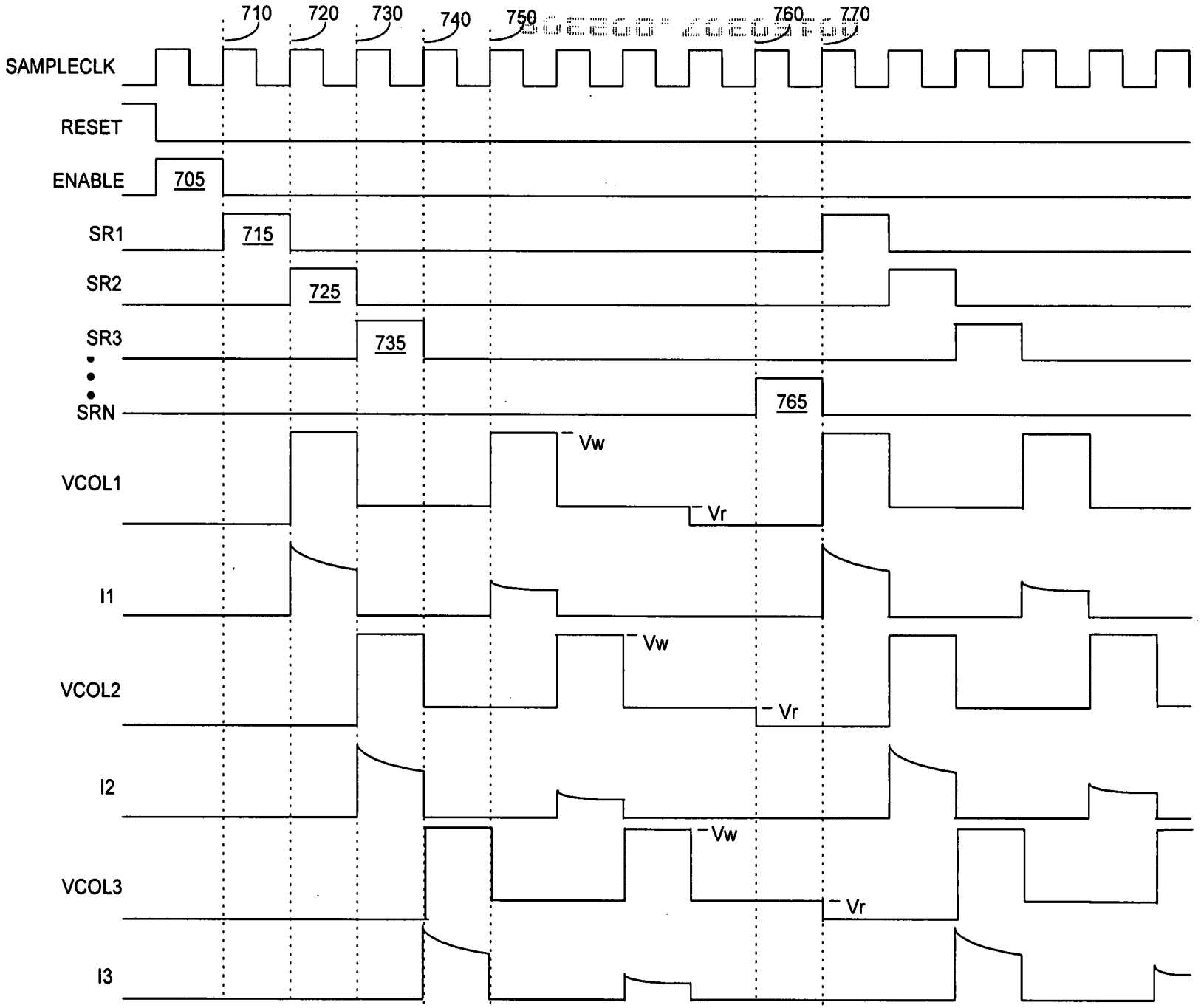
710
720
730
740
750
760
770
SAMPLECLK
RESET
ENABLE
705
SR1
715
SR2
725
SR3
735
SRN
765
VCOL1
Vw
Vr
I1
VCOL2
Vw
Vr
I2
VCOL3
Vw
Vr
I3

FIG. 7

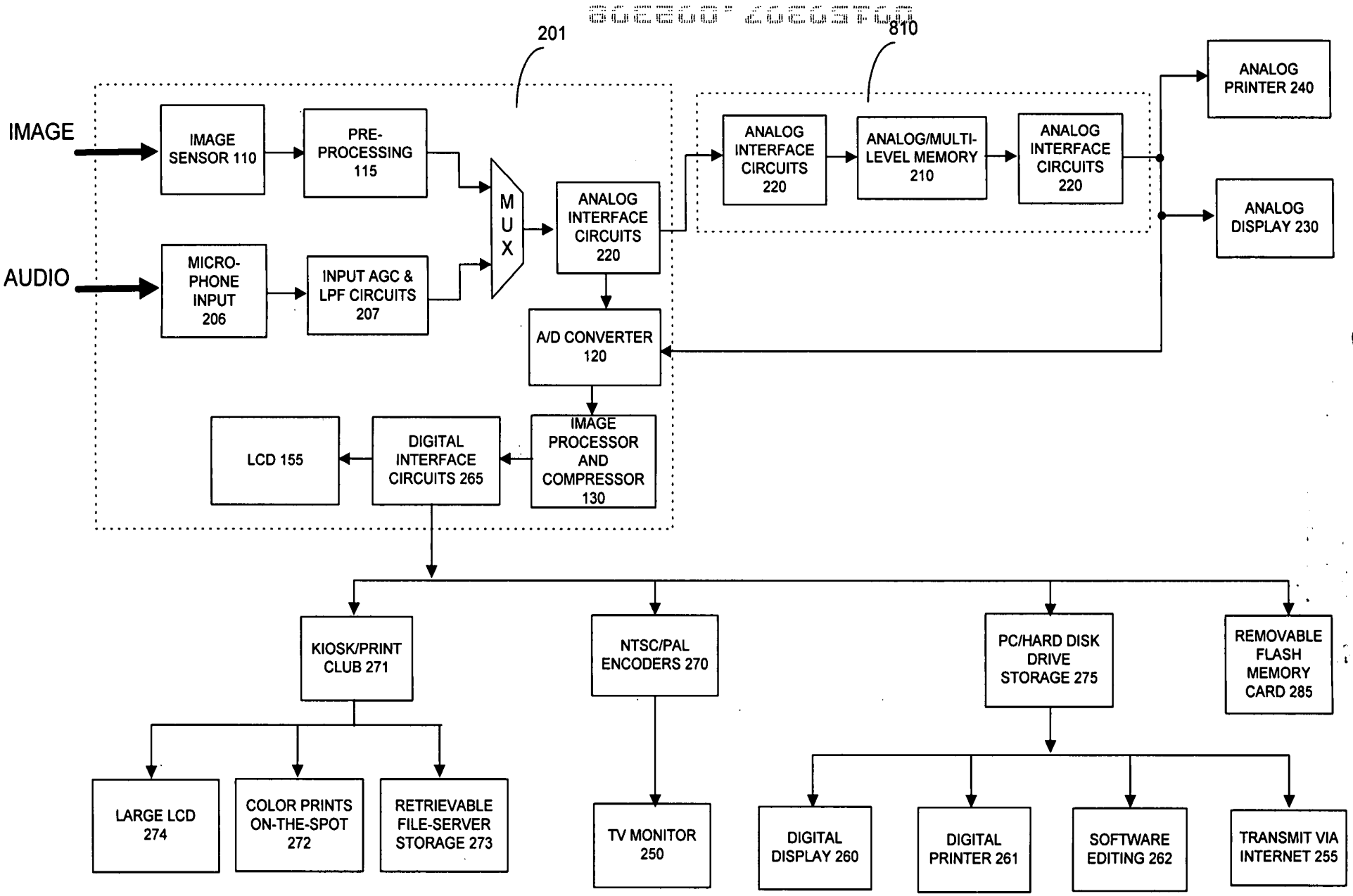
201
810
IMAGE
AUDIO
IMAGE SENSOR 110
PRE-PROCESSING 115
MICRO-PHONE INPUT 206
INPUT AGC & LPF CIRCUITS 207
MUX
ANALOG INTERFACE CIRCUITS 220
A/D CONVERTER 120
IMAGE PROCESSOR AND COMPRESSOR 130
DIGITAL INTERFACE CIRCUITS 265
LCD 155
ANALOG INTERFACE CIRCUITS 220
ANALOG/MULTI-LEVEL MEMORY 210
ANALOG INTERFACE CIRCUITS 220
ANALOG PRINTER 240
ANALOG DISPLAY 230
KIOSK/PRINT CLUB 271
NTSC/PAL ENCODERS 270
PC/HARD DISK DRIVE STORAGE 275
REMOVABLE FLASH MEMORY CARD 285
LARGE LCD 274
COLOR PRINTS ON-THE-SPOT 272
RETRIEVABLE FILE-SERVER STORAGE 273
TV MONITOR 250
DIGITAL DISPLAY 260
DIGITAL PRINTER 261
SOFTWARE EDITING 262
TRANSMIT VIA INTERNET 255

FIG. 8

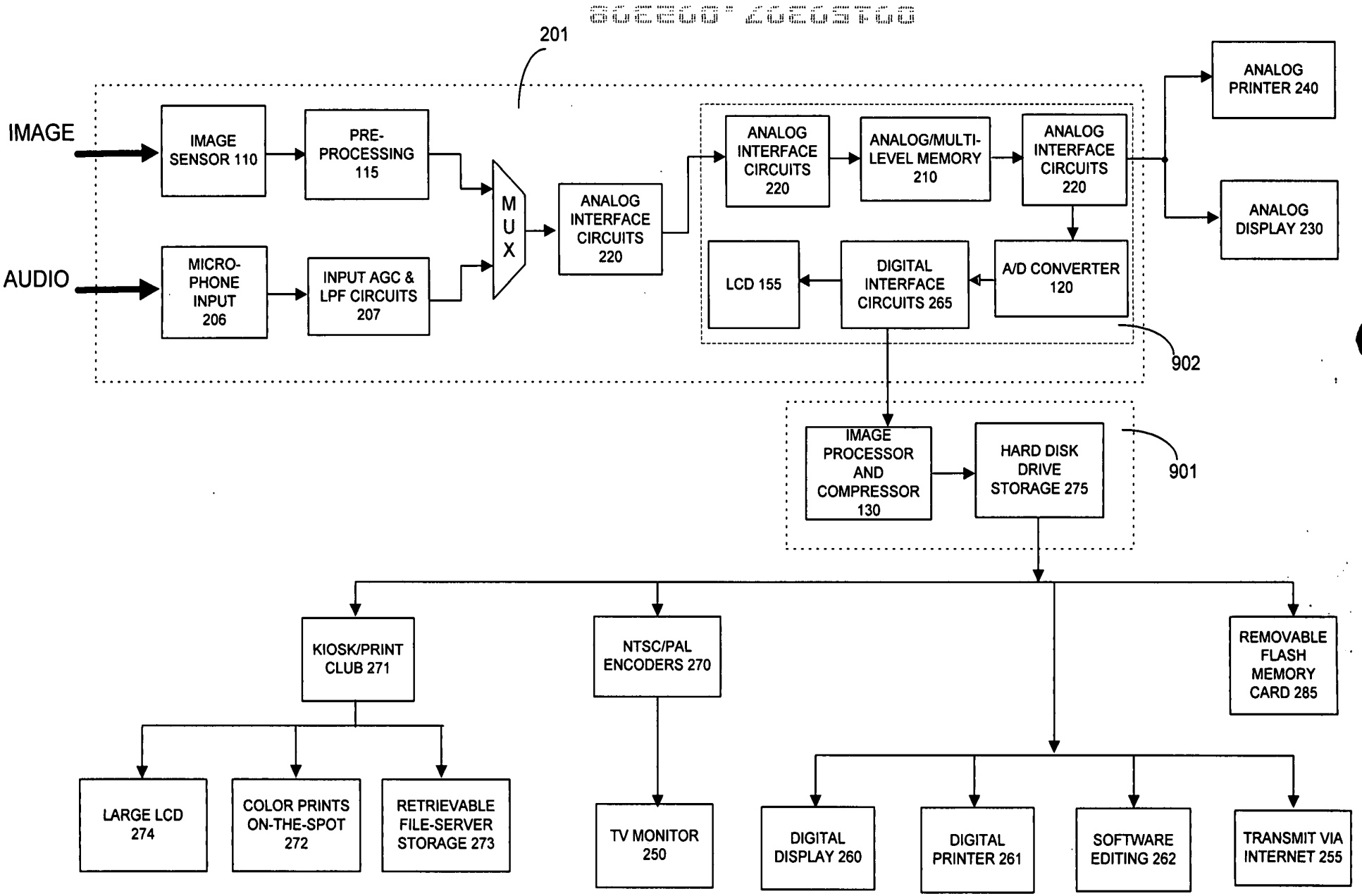
201
IMAGE
AUDIO
IMAGE SENSOR 110
PRE-PROCESSING 115
MICRO-PHONE INPUT 206
INPUT AGC & LPF CIRCUITS 207
M U X
ANALOG INTERFACE CIRCUITS 220
ANALOG INTERFACE CIRCUITS 220
ANALOG/MULTI-LEVEL MEMORY 210
ANALOG INTERFACE CIRCUITS 220
ANALOG PRINTER 240
ANALOG DISPLAY 230
LCD 155
DIGITAL INTERFACE CIRCUITS 265
A/D CONVERTER 120
902
IMAGE PROCESSOR AND COMPRESSOR 130
HARD DISK DRIVE STORAGE 275
901
KIOSK/PRINT CLUB 271
NTSC/PAL ENCODERS 270
REMOVABLE FLASH MEMORY CARD 285
LARGE LCD 274
COLOR PRINTS ON-THE-SPOT 272
RETRIEVABLE FILE-SERVER STORAGE 273
TV MONITOR 250
DIGITAL DISPLAY 260
DIGITAL PRINTER 261
SOFTWARE EDITING 262
TRANSMIT VIA INTERNET 255

FIG. 9

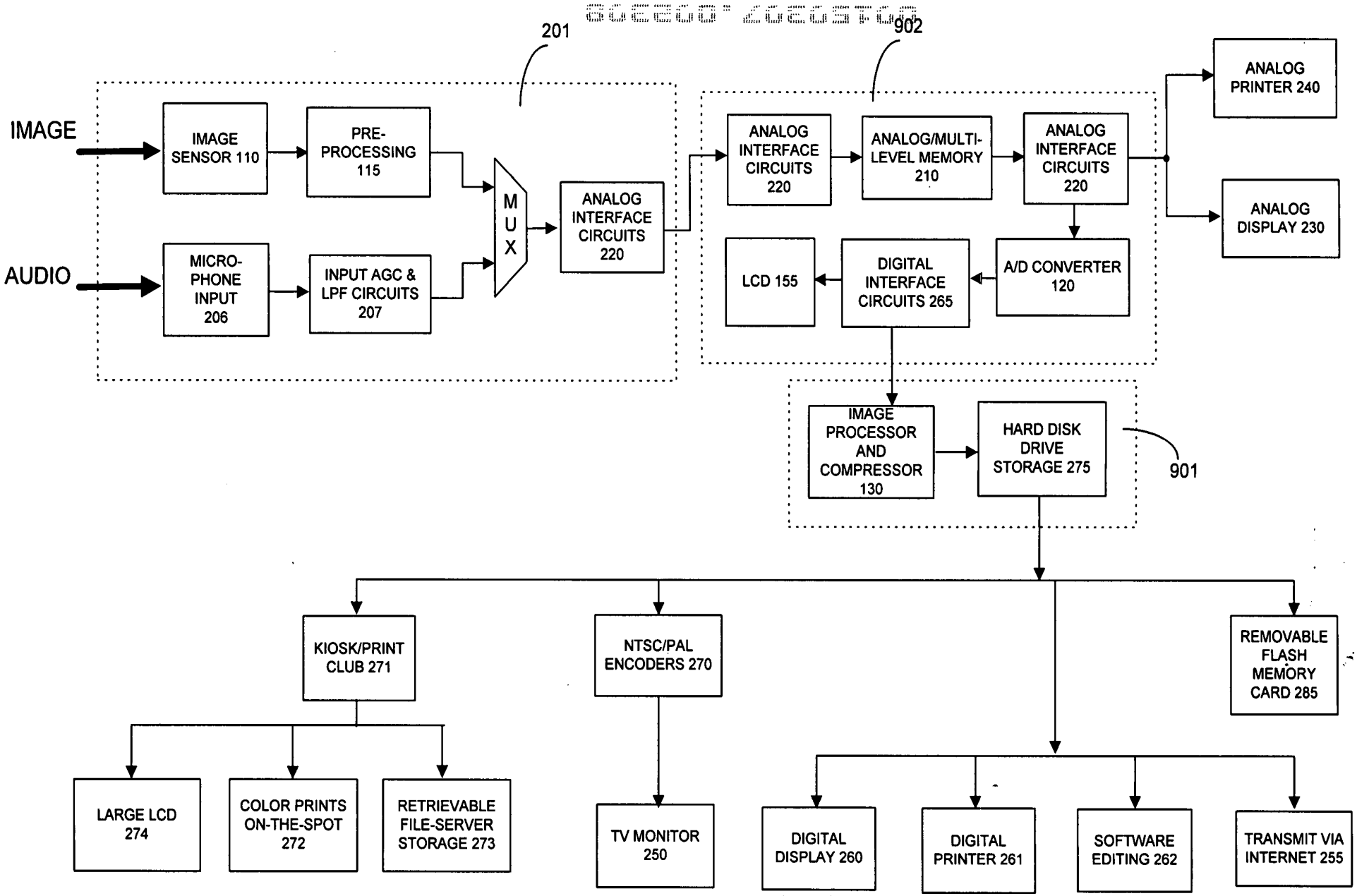
201
902
IMAGE
AUDIO
IMAGE SENSOR 110
PRE-PROCESSING 115
MICRO-PHONE INPUT 206
INPUT AGC & LPF CIRCUITS 207
MUX
ANALOG INTERFACE CIRCUITS 220
ANALOG INTERFACE CIRCUITS 220
ANALOG/MULTI-LEVEL MEMORY 210
ANALOG INTERFACE CIRCUITS 220
ANALOG PRINTER 240
ANALOG DISPLAY 230
LCD 155
DIGITAL INTERFACE CIRCUITS 265
A/D CONVERTER 120
IMAGE PROCESSOR AND COMPRESSOR 130
HARD DISK DRIVE STORAGE 275
901
KIOSK/PRINT CLUB 271
NTSC/PAL ENCODERS 270
REMOVABLE FLASH MEMORY CARD 285
LARGE LCD 274
COLOR PRINTS ON-THE-SPOT 272
RETRIEVABLE FILE-SERVER STORAGE 273
TV MONITOR 250
DIGITAL DISPLAY 260
DIGITAL PRINTER 261
SOFTWARE EDITING 262
TRANSMIT VIA INTERNET 255

FIG. 10